



Covering PU

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BOMIX® MOULD COATINGS DESIGN AND FUNCTION

The highly efficient process of In-Mould Coating (IMC) offers users the benefit of integrating coating direct into the manufacturing process. A high-quality coating is applied to the mould between the release agent and the polyurethane foam. Only one additional working step is required for this. *Bomix® Mould Coating systems* fulfil the highest demands. They open up numerous opportunities for the functional features and visual design of PU components. Covering PU; for BOMIX this means high-quality surface refinement and common development of individual solutions for every challenge – economical, sustainable and environmentally conscious.

TECHNOLOGY DESCRIPTION

Using the *Bomix® Mould Coatings* eliminates the complex surface pre-treatment process as well as post coating. Mould temperatures upward of 40°C facilitate the use of water-based IMC systems. For this purpose, environmentally friendly, water-based products are available. The use of organic solvents can be avoided.

The IMC process also yields good results in relation to flexibility, abrasion resistance and ease release. There are further *Bomix® Mould Coating systems* available for this (e.g. flame retardant, conductivity, biocompatibility). With high pressure, airless or electrostatic, the IMC process is designed for all common application technologies. The choice of colours is wide and the creative freedom almost infinite.

FIELDS OF APPLICATION

Bomix® Mould Coatings meet a range of different requirements for the surface refinement of plastic components. They are used in numerous markets. Among these, the main emphasis is on the areas of Lifestyle, Heath/REHA, Mobility and Aerospace. Examples from these application areas include armrests for aeroplanes as well as seats and backrests for all types of chairs. The IMC features are also used in the area for automotive interiors (headrests and buttons) as well as medical use (antimicrobial, slip resistance, weather / light resistance, chemical / cleaning product resistance).

YOUR ADVANTAGES AT A GLANCE

- **Function and design:** Creation of high-quality and functional surfaces
- **Protective function:** Surface protection due to high abrasion and scratch resistance
- **Wide range of colour shades:** NCS, pantone, RAL and RAL-Design, special colour shades and colour shades according to customer's individual colour samples
- **Environmentally-friendly attributes:** Predominant 1K or 2K water-based systems possible
- **Customised solutions:** Coordinating the *Bomix® Mould Coating systems* with the relevant *Bomix® Release Agents*

BRIEF PRODUCT PROFILE

Product examples: Mobility (e.g. engine cover, acoustic parts) Mobility (e.g. aeroplane armrests) Lifestyle (e.g. gymnastics mats) Building & Construction (e.g. window shutters) Health/Rehab (e.g. medical furniture)	Bomix® Mould Coatings Series 1400 (flame retardant) Series 7800 (flame retardant / abrasion-resistant) Series 1400 (abrasion-resistant) Series 7950 (rigid foam / outdoor exposure) Series 2800 (disinfectant resistant / flame retardant / biocompatible) Series 7950 (disinfectant resistant / conductive / biocompatible) Series 1600 (1K / rigid foam / disinfectant resistant) Series 1700 (1K / flexible foam / disinfectant resistant)
Substrates:	Polyurethane, GFK and various thermoplastics
Systems:	1K or 2K, solvent- based and water-based
Shades of colours:	A wide range of colours is possible
Special features:	According to the appropriate requirement, also as combinations of different attributes, e.g.: <ul style="list-style-type: none"> • Flame retardant and high abrasion resistance • Conductivity and disinfectant resistant
Approvals:	According to the national and international standards as well as a range of customer requirements, e.g.: <ul style="list-style-type: none"> • Conductive surfaces: ISO 2878:2011-09 • Biocompatible surfaces: DIN EN ISO 10993-5 • Flame retardant surfaces: DIN 4102B1 and fire behaviour of interior fittings / acoustic parts RL 95/28/EG B1, FMVSS 302, DIN EN 1021-2 (upholstered furniture) • Chemical resistance: DIN 2812-3 u. 4

Technical product questionnaire can be found on www.bomix.com/en/service/download-center

BOMIX CHEMIE GMBH – COVERING PU

ONE SOURCE PARTNER FOR POLYURETHANE SURFACE REFINEMENT

As an experienced system partner, Bomix Chemie GmbH from Telgte near Münster (Germany, North Rhine-Westphalia) offers everything from one single source: in-house development know-how, high-quality and customised products, expert advice and excellent on-site service. Innovative product solutions are developed in close collaboration with the customer and are specifically tailored to individual applications.

“Covering PU“ has determined the companies thinking and actions since 1975. From innovative release agents to multifunctional In-Mould-Coatings and high-quality topcoat systems, Bomix offers a high-performance product range that meets the multifaceted applications of the polyurethane industry. Matching PU pigment preparations and various auxiliaries round off the product range.

Bomix has been part of the Berlac Group’s brand portfolio since 2003. The globally active group of companies develops and produces sophisticated solutions for surface refinement, surface protection and colouring of plastics.